

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-73997-2

Client Project/Site: WPCP San Leandro

For:

City of San Leandro

3000 Davis Street

San Leandro, California 94577

Attn: Angelica Berumen



Authorized for release by:

9/14/2016 6:27:49 PM

Criselda Caparas, Project Management Assistant I

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Designee for

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(925)484-1919

cherie.cuellar@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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DENALI_004724



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Definitions/Glossary | 3 |
| Case Narrative | 4 |
| Detection Summary | 5 |
| Client Sample Results | 6 |
| QC Association Summary | 7 |
| Lab Chronicle | 8 |
| Certification Summary | 9 |
| Method Summary | 10 |
| Sample Summary | 11 |
| Chain of Custody | 12 |
| Receipt Checklists | 13 |

Definitions/Glossary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

TestAmerica Pleasanton

Case Narrative

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Job ID: 720-73997-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-73997-2

Comments

No additional comments.

Receipt

The samples were received on 8/18/2016 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Client Sample ID: SLUDGE BED#14 W Lab Sample ID: 720-73997-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|------|-----|------|---------|---|--------|--------------|
| Copper | 1.2 | | 0.20 | | mg/L | 1 | | 6010B | STLC Citrate |

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- 2
- 3
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- 7
- 8
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- 10
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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11

Matrix: Solid

Date Received: 08/18/16 16:35

Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Copper | 1.2 | | 0.20 | | mg/L | | 09/09/16 11:35 | 09/09/16 17:33 | 1 |

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QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Metals

Leach Batch: 208830

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|--------------|--------|----------------|------------|
| 720-73997-8 | SLUDGE BED#14 W | STLC Citrate | Solid | CA WET Citrate | |

Prep Batch: 209025

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|--------------|--------|--------|------------|
| 720-73997-8 | SLUDGE BED#14 W | STLC Citrate | Solid | 3005A | 208830 |

Analysis Batch: 209087

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|--------------|--------|--------|------------|
| 720-73997-8 | SLUDGE BED#14 W | STLC Citrate | Solid | 6010B | 209025 |

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Lab Chronicle

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11

Matrix: Solid

Date Received: 08/18/16 16:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| STLC Citrate | Leach | CA WET Citrate | | | 208830 | 09/07/16 09:11 | JNG | TAL PLS |
| STLC Citrate | Prep | 3005A | | | 209025 | 09/09/16 11:35 | JNG | TAL PLS |
| STLC Citrate | Analysis | 6010B | | 1 | 209087 | 09/09/16 17:33 | ASB | TAL PLS |

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-18 |

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TestAmerica Pleasanton

Method Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

| Method | Method Description | Protocol | Laboratory |
|--------|--------------------|----------|------------|
| 6010B | Metals (ICP) | SW846 | TAL PLS |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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TestAmerica Pleasanton

Sample Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-73997-8 | SLUDGE BED#14 W | Solid | 08/18/16 09:11 | 08/18/16 16:35 |

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TestAmerica Pleasanton

Caparas, Criselda

720-73997-2

From: Berumen, Angelica [ABerumen@sanleandro.org]
Sent: Tuesday, September 06, 2016 3:45 PM
To: Caparas, Criselda
Cc: Abbasi, Shahed
Subject: RE: Preliminary Report-TestAmerica report files from 720-73997-1 WPCP San Leandro

Thank you Criselda. Please proceed with STLC for Cu.

From: Caparas, Criselda [mailto:criselda.caparas@testamericainc.com]
Sent: Tuesday, September 06, 2016 3:41 PM
To: Berumen, Angelica
Subject: Preliminary Report-TestAmerica report files from 720-73997-1 WPCP San Leandro

Hi Angelica

Attached please find the preliminary report files for job 720-73997-1; WPCP San Leandro

Looking at your Total Metals result your Cooper is above limit.
Please email me back if you want me to start STLC for Cu.

Please feel free to contact me if you have any questions.

Thank you.

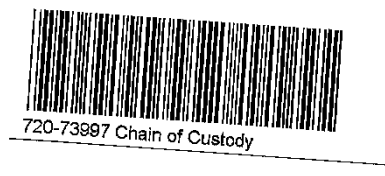
Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

CRISELDA CAPARAS
Project Management Assistant I

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [224880]
Attachments: 1



Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-73997-2

Login Number: 73997

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |